



The Capsule

Newsletter for the Space Coast Chapter of ASHRAE

September 2014 Issue

Message from the Chapter President

By John Constantinide, MS
Chapter President & Programs Chair

The Space Coast Chapter is coming back! At the 2014 Chapters' Region Conference (CRC) from July 30 to August 2, our Chapter was honored as the Most Improved Chapter for Region XII, which includes Florida, the Caribbean, and Central and South America. Moreover, Space Coast Chapter won the Silver Treasury Award for raising over \$5,000 for ASHRAE Research and attained the Honor Roll for the President's Award of Excellence. These awards are a credit to the hard work of our Chapter leadership and volunteers, contribution of our sponsors, and the loyalty of our Chapter membership. Thank you for making Space Coast Chapter the rising star of Region XII and ASHRAE.

Following this year's Chapter presidential theme, "Members First, Member-Focused," you will notice changes aimed to improve the quality of your ASHRAE and Chapter membership. The main Technical Meeting venue is being moved to [Heritage Isle](#), a beautiful clubhouse in the Viera area of Melbourne offering a similar menu to the previous venue. That move results in a lower meeting entry fee of \$25 per person, \$10 less than last year. (And, Student Members can still join us for free.) More information about the new venue is in the Upcoming Programs section on the next page.

The Chapter is bringing back the 50/50 Drawing to benefit ASHRAE Research at every Technical Meeting. For \$5 for 1 ticket or \$10 for 3 tickets, you have a chance to walk home with a sizeable prize while donating to a great cause. Sponsors are always welcome to make the prize sweeter with a gift certificate. If you would like to sponsor a 50/50 Drawing, please e-mail me at President@SpaceCoastASHRAE.org.

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- 3 Grassroots Government Activities
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Coming up

September Technical Meeting
Tues., Sept. 9, 5:30 pm Networking &
6:00 pm Presentation/Dinner,
Heritage Isle ([Click here for map.](#))

October Technical Meeting
Tues., Oct. 14, 5:30 pm Networking &
6:00 pm Presentation/Dinner,
Heritage Isle ([Click here for map.](#))

Programs

By **John Constantinide, MS**
Chapter President & Programs Chair

Our normal Chapter meetings location moved to Heritage Isle Club ([6800 Legacy Blvd., Melbourne, FL 32940](#)), a beautiful clubhouse nestled in a gated community of Viera, Florida. Access to this club is closer to I-95, and the guardhouse provides directions to the clubhouse from N. Wickham Road. [Click here to view a map of the club's location.](#)

Directions to Heritage Isle Club

To get to the clubhouse, exit off I-95 on Exit 191. Go west on N. Wickham Rd. until you reach Legacy Blvd. (A sign pointing with the ASHRAE Space Coast Chapter logo pointing to the meeting will be placed on the road.) Turn right on Legacy Blvd., and you will see a guardhouse.

Tell the guard that you are going to the clubhouse for the ASHRAE meeting. He will provide directions to the clubhouse.

Proceed on Legacy Blvd., and make a first right at the traffic circle. Signs will indicate where the meeting is.

Meeting Dates at Heritage Isle

Chapter Technical meetings are still on the second Tuesday of every month. For the 2014-2015 term, we will have Technical Meetings at Heritage Isle Club on the following dates:

- Tuesday, September 9;
- Tuesday, October 14 (**Distinguished Lecturer**);
- Tuesday, January 13;
- Tuesday, February 10;
- Tuesday, April 14 (**Student Night**); and
- Tuesday, May 12 (Subject to Change).

Entry is \$25, which includes the presentation and a meal with beverage. Student Members may enter for free. Attendees may purchase 50/50 drawing tickets to benefit ASHRAE Research, with 1 ticket for \$5 and 3 tickets for \$10.

November Refrigeration Tour

On **Tuesday, November, 11 at 6:00 pm**, the Chapter will tour the **Port Canaveral Refrigeration Complex**. Please note the following requirements for the tour:

1. Safety vest and hard hats are required. (Alpha MRC can loan hardhats to the first 15 registrants. Otherwise, safety equipment must be brought by attendees.)

2. No contacts for vision correction are allowed. Glasses are only permitted.
3. Customer will provide disposal plugs for hearing protection. If you have sensitive hearing, please bring ear muffs or appropriate protection.
4. Safety shoes (e.g. work boots with non-slip shoes) are required. Steel toe boots are not required.
5. The toured area requires a Canaveral Port Badge.

The tour is free and provided by the Canaveral Port Authority.

To register for the tour and obtain a Port Badge for the facility, e-mail John Constantinide at Programs@SpaceCoastASHRAE.org.

Joint March Meeting with Central Florida Chapter

On Tuesday, March 10, Space Coast and Central Florida Chapters will have a joint meeting at Lone Cabbage (8199 W. King St., Cocoa, FL, 32926). [Click here to view a map of the restaurant's location.](#) Our speaker will present on a topic of interest for both chapters. Prices and speaker will be announced as the meeting date approaches.

Would you like to present at one of our Chapter's Technical Meetings? If so, please e-mail John Constantinide at Programs@SpaceCoastASHRAE.org.

Continued, Chapter President's Message



With that in mind, come join the Space Coast Chapter at the **September Technical Meeting on Tuesday, September 9, at Heritage Isle Club (6800 Legacy Blvd., Melbourne, FL 32940)**. **Networking starts at 5:30 pm, with the dinner and presentation starting at 6:00 pm.** The speaker will be Michael P. Sheerin, PE, LEED AP BD+C, pictured here, the Principal and Director of Healthcare Engineering at TLC Engineering for Architecture. Mr. Sheerin's presentation is titled, "Focus on Healthcare – Improving Standard 170 to Meet Today's Healthcare Needs." As the healthcare market and healthcare providers had to adapt to the demands of lower reimbursements and more efficient care models, so must ASHRAE's standards. ASHRAE Standard 170 was first published in 2008, and became a national reference standard for healthcare design when it was integrated into the 2010 FGI Guidelines. Mr. Sheerin will reflect upon the evolution of the 170 standard, the impact of its inclusion into the FGI Guidelines, and the most recent changes that were included in the 170-2013 publication.

Grassroots Government Activities

By Scott Seigel, PE, LEED AP, CEM, CxA, OPMP
Regional Vice Chair & Chapter Chair for Grassroots Government Activities

A recent Grassroots Government Activities Committee (GGAC) survey confirmed that over 120 of ASHRAE's 175 Chapters have appointed GGAC Chairs at the Chapter level in this first year of the new Committee. As the 2014–15 ASHRAE year begins, it is important to have a GGAC Chair in all of our Chapters as we delve more fully into engaging with state, provincial, and local officials. Region XII is over 95% committed. It is vital that we build a network of active engineer-advocates worldwide to impress upon decision-makers how their choices will impact society and HVAC&R professionals specifically. We need your help as Space Coast Chapter members to be on the Government Grassroots Affairs Committee.

The information acquired from the survey results is helping shape additional resources that will be posted on ASHRAE's GGAC [webpage](#). PowerPoints on how to organize at the local level and how to organize a "Day on the Hill" to contact local elected/appointed officials are currently being developed. Any other ideas for training or to requests for more information should be directed to Scott Seigel, Grassroots Government Affairs RVC Region XII, at scott.seigel@siemens.com.

Workforce Innovation and Opportunity Act Set to Become Law

Returning from their July 4th recess and cognizant that they have less than 30 days of legislative time before the November elections, Members of Congress have shifted from a comfortable jog to an all-out sprint, introducing a slew of bills, negotiating funding legislation, and reaching rare compromise on a bill that would modernize and improve federal workforce development programs – the Workforce Innovation and Opportunity Act (WIOA, [H.R.803](#)). WIOA passed the House earlier this week by a vote of 415 to 6, and previously passed the Senate by a vote of 95 to 3. The bill now goes to President Barack Obama, who is expected to sign it into law.

"The Workforce Innovation and Opportunity Act will update and improve our workforce training programs by aligning them with real-world labor market needs. This legislation will better connect job training programs with the needs of local employers, helping workers to learn the most in-demand skills and to be prepared for the jobs of tomorrow,"

[said](#) Representative George Miller (California), the senior-most Democrat on the House Education and the Workforce Committee.

"This bipartisan, bicameral agreement will fix a broken job training system, help workers fill in-demand jobs, and protect taxpayers. I am proud to have helped lead this effort and want to thank my Republican and Democrat colleagues in the House and Senate for their hard work. Let's build off today's achievement and continue working together on behalf of the American people," [said](#) Representative John Kline (R-MN), Chairman of the House Committee on Education and the Workforce.

ASHRAE is a member of the Science, Technology, Engineering, and Mathematics ([STEM](#)) [Education Coalition](#), which has been actively working on this legislation. A one-page summary of the bill can be found [here](#). A longer, section-by-section summary of the bill can be found [here](#).

House Members Introduce Building Energy Codes Legislation

This week Representatives Marsha Blackburn (R-TN) and Kurt Schrader (D-OR) introduced the Energy Savings and Building Efficiency Act ([H.R.5027](#)). The bill would modify the U.S. Department of Energy's role in the development, adoption, and compliance of ANSI/ASHRAE/IES 90.1 – *Energy Standard for Buildings Except Low-Rise Residential Buildings* and the International Energy Conservation Code (IECC). The bill also contains some provisions similar to the building energy codes sections of the Energy Savings and Industrial Competitiveness Act ([S.2074](#)), also known as Shaheen-Portman.

ASHRAE is working with congressional offices and stakeholder organizations and has not yet taken a position on this bill.

President Obama Issues Opposition to House Energy & Water Funding Bill

The Energy and Water Development Appropriations Bill for Fiscal Year 2015 ([H.R.4923](#)) hit a wall this week when President Barack Obama issued a [Statement of Administrative Policy](#) that threatened a veto of the legislation, arguing that the bill "significantly underfunds critical investments that develop American energy sources to build a clean and secure energy future, support the emerging clean energy technologies that create high-quality jobs, and enhance the Nation's economic competitiveness."

(Continued on Page 5.)

Research Promotion

By Dave Kirshner
Chapter Research Promotion Chair

Save the date!

The 23rd Annual Space Coast Chapter Golf Tournament to Benefit ASHRAE Research will be on Friday, March 27, 2015.

Plans are underway for next year's Chapter Golf Tournament. If you would like to reserve your foursome or be a hole, lunch, drink cart, or tournament sponsor, e-mail Dave Kirshner at RP@SpaceCoastASHRAE.org.

In addition to the Chapter Golf Tournament, the Research Promotion Committee will have more creative ways to fundraise for ASHRAE Research, including a bowling tournament, fishing tournament, 50/50 drawings at Technical Meetings, and more. If you have other creative ideas or want to be a part of this committee, e-mail RP@SpaceCoastASHRAE.org.

Student Activities

By Oscar Acevedo
Chapter President-Elect & Student Activities Chair

The Florida Technical College, Kissimmee Campus Student Branch is accepting donations of ASHRAE handbooks and other HVAC/R texts to form a Student Branch library. If you have old ASHRAE and HVAC/R books to donate, please e-mail Oscar Acevedo at SA@SpaceCoastASHRAE.org.

Congratulations to the following charter Branch officers for their election:

- Herbert Ramos, Branch President;
- Reynaldo Dejesus Figueroa, Branch Vice President;
- Luis Pagan, Branch Secretary/Treasurer.

The Branch thanks Nate Boyd with the City of Orlando for giving a presentation to the College's students.



(Continued on Page 5.)

Young Engineers in ASHRAE (YEA)

By Jeanne Duce, PE
Regional Vice Chair & Chapter Chair for YEA

Mark your calendars!



Dinner with the DL
Friday, October 17, 6:00 pm
Meg O'Malleys, Melbourne, FL
([Click here for a map of the location.](#))

Come have dinner with YEAs in the Space Coast Chapter and our October Distinguished Lecturer (DL), Dr. Victor Goldschmidt. The dinner is a great opportunity to interact with other young engineers and talk to a prominent professional in ASHRAE in a relaxed, Irish pub and restaurant setting.

For more information, e-mail Jeanne Duce at YEA@SpaceCoastASHRAE.org.



Young Engineers Mini-Golf
November 2014 (Exact Date and Time TBD)
Golf N Gator, Cape Canaveral, FL
([Click here for a map of the location.](#))

Whether you love or hate golfing, we would love for you to join us for a great time at a newly renovated mini-golf course and gator feeding area. And, families and kids are welcome to come to this event.

For 18 holes, prices are \$10.99 for adults and \$8.99 for kids ages 8 and under. For 36 holes, prices are \$13.99 for adults and \$11.99 for kids ages 8 and under. And, you can feed the gators for a nominal price.

This YEA event is organized with the Young Members Committee of the Society of Military Engineers Space Coast Post. Come out and meet other young professionals at this joint event.

Continued, Grassroots Government Activities

The Energy and Water Development Bill provides funding to the U.S. Department of Energy, Army Corps of Engineers, Department of the Interior, and related federal agencies and offices. As noted in a previous edition of the [Update](#), the Senate version of this bill stalled in June over attempts to attach an amendment that would temporarily block implementation of the proposed rule from the U.S. Environmental Protection Agency (EPA) for fossil fuel-fired power plants.

If Members of Congress and the President are unable to reach agreement on this, and other funding bills prior to the end of the fiscal year on September 30, they will be forced to either enact a continuing resolution (CR) that will temporarily fund federal programs at current levels or, if a CR is not enacted, partially halt non-essential federal programs until policymakers' differences are resolved.

House Members Overwhelmingly Reject Attempt to Zero Funding for DOE Efficiency & Renewable Energy Programs

During debate of the Energy and Water Appropriations Bill for Fiscal Year 2015 ([H.R.4923](#)) on the House floor, Representative Bradley Byrne (R-AL) offered an amendment that would have zeroed all funding for the U.S. Department of Energy's (DOE) Energy Efficiency and Renewable Energy (EERE) Program. DOE's building energy codes and standards activities are funded through EERE.

The amendment was immediately met with bipartisan opposition from the Chairman and senior-most Democrat of the Energy and Water Development Appropriations Subcommittee, Representatives Mike Simpson (R-ID) and Marcy Kaptur (D-OH). The amendment was later soundly defeated by a vote of 110 to 310.

History

By Oscar Acevedo Chapter President-Elect & Student Activities Chair

As far as professional organizations go, some stand out because of the test of time and reliability. ASHRAE has been seen in many places, but few understand the organization. Here is a brief overview:

The arts and sciences of air conditioning were yet to be codified. In 1894, a young engineer by the name of Hugh J. Barron proposed an organization for the heating and ventilation industry. It originally started in New York as the American Society of Heating and Ventilating Engineers (ASHVE), which later became

the American Society of Heating and Air-Conditioning Engineers (ASHAE).



Little or no scientific knowledge was available for research and review by the public. The contractors at that time had little education and no formal engineering training. They were more business-oriented and did not know how to properly ventilate spaces. Going back 61 years earlier, in Apalachicola, Florida, a young talented professional by the name of Dr. John

Gorrie, pictured above, came from New York and was concerned about the high outbreak of malaria fever. In 1842, Dr. Gorrie devised an air blowing machine that blew air over ice for his patients. In 1851, he designed and patented what we now call a vapor compression system. In 1824, the first female mechanical engineer, Margaret Ingols, wrote about one of the founding fathers of air-conditioning, Willis Carrier. There were other individuals who contributed to the arts and sciences of modern day air-conditioning and refrigeration.

As the membership grew, it became obvious to start the separation of committees which are called chapters. Each chapter has professionals, including engineers and architects. They serve on their chapter boards as volunteers and are able to enhance their careers with connections made at that level. With over 50,000 members worldwide, the mission to advance the arts and sciences of air-conditioning and refrigeration continues to move forward.

Portrait of Dr. John Gorrie courtesy of [Florida Memory](#).

Do you have ASHRAE or HVAC/R history to share? Submit a history article for The Capsule by e-mailing Chapter@SpaceCoastASHRAE.org.

Continued, Student Activities

The Florida Institute of Technology Student Branch is looking for professionals to mentor college students toward an HVAC/R career and act as a link between the Student Branch and the Chapter. Commitment is about 2 hours per month. If you are interested in helping, please e-mail Oscar Acevedo at SA@SpaceCoastASHRAE.org or Prof. Pei-Feng Hsu at FIT@SpaceCoastASHRAE.org.

Support our sponsors! They support ASHRAE.



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Founded in 1894, ASHRAE's mission is to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

In fulfilling the mission, ASHRAE's vision is to be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning, and refrigerating.

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